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APPLICATION NO	NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/753,388	88 01/09/2004		Kang-Ping Lin	MR2561-137	6089	
4586	7590	05/03/2006		EXAMINER		
ROSENBEI			FAULCON JR, LENWOOD			
ELLICOTT (TER DRIVE-SUITE 21043	5 101	ART UNIT PAPER NUMBER 3762		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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11.

DATE MAILED: 05/03/2006

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	Application No.	Applicant(s)	—— <i>V</i> ·
	10/753,388	LIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Lenwood Faulcon, Jr.	3762	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versions to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this ∝ D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		e merits is
Disposition of Claims			
4) ☐ Claim(s) 1-6 and 13-18 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 and 13-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 Cf	
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National	Stage
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	D-152)

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-6 and 13-18 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1 and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In regards to claim 1, Examiner takes the position that it is unclear as to whether the claim language limitation regarding "contact by two fingers" is directed to two fingers contacting each of the two electrodes, or if the limitation is two fingers of each hand contacting both of the electrodes. Similarly, in regards to claim 13, Examiner takes the position that it is unclear as to whether the claim language limitation regarding contact by two fingers" is directed to two fingers contacting each of the electrodes, or if the limitation is two fingers of each hand contacting each of the electrodes.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1-6, 13-15 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mills et al. (U.S. Patent No. 5,317,269) as applied to claims 1-6 and 13-18 in the previous Office Action of October 19, 2005, and further in view of Lo et al. (U.S. Patent No. 5,738,104).

Lo et al. teaches of a ECG heart rate monitor, four gel-less electrodes (40, 41, 42, 44) that are disposed in the recess of an handle grips (36, 38) and extend circumferentially around a long handle bar (Figure 3, lines 16-18), in which these electrodes are adapted to be in contact with a patient's hands (col. 8 lines 3-12). Lo et al. also teaches of the system comprising a differential amplifier (60) and an additional amplifier (66), which Examiner interprets to be a pre-amplifier and an output amplifier respectively (col. 9 lines 9-14 and 55-57).

In regards to claims 1 and 13, Examiner takes the position that either pair of electrodes (40 and 41 or 42 and 44) on either handle grip (36 or 38) as taught by Lo et al. is adapted to be in contact with at least two fingers of a patient's hand, and when both handle grips are used in combination, the system provides contacts for at least two fingers on each of the patient's hands. Examiner also takes the position that each single electrode of a pair, is inherently capable of being in contact with at least two fingers of a hand, since at least two fingers could be in contact with an electrode. Further, it appears that the circumferential electrodes as taught by Lo et al. provide the same benefit Applicant argues is a benefit of the claims 1 and 13, which is providing a relatively large contact (page 10 lines 5-10).

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Examiner, acknowledges that Lo et al. reference does not specifically teach of a shell with a long cube shape, comprising electrodes passing over at least edge of the shell; however, Examiner takes the position that shape of the shape is only critical to the extent that the shell is adapted to be in contact with a person's hand and provide contact with at least two fingers per electrode contact. Further, Examiner takes the position that it would be an obvious design choice to one having ordinary skill in the art to provide a cube shaped shell as claimed by Applicant, rather than a cylindrical shaped shape shell as taught by Lo et al. Again, Examiner takes the position that the handle grips as taught by Lo et al. provide the same benefits as Applicant's system. Further, Examiner takes the position that Lo et al. teaches that electrode placement on handlebars (Figure 3) can be adapted to function in other embodiments such as a wristwatch (Figure 1).

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Mills et al. with the teachings of Lo et al. Mills et al., and Lo et al. both teach of cardiac monitors that measure ECD data detected by electrodes in contact with a patient's hand, and thus teach of analogous arts. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the system as taught by Mills et al. to include a electrodes that are capable of contacting at least two fingers of each hand, since this type of electrode arrangement is commonly know in the art to provide efficient contact with a patient's hand for producing ECG data, as taught by Lo et al. Further, Lo et al. teaches that the electrode contacts and system on the handlebar embodiment (Figure 3) can be adapted to for use in a

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wristwatch embodiment (Figure 1). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Mills et al. and Lo et al., to have the limitations of claims 1-6, 13-15 and 17-18.

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6. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mills et al. (U.S. Patent No. 5,317,269) in view of Lo et al. (U.S. Patent No. 5,738,104) as applied to claims 1-6, 13-15 and 17-18 above, and further in view of Dunseath (U.S. Patent No. 4,865,039) as applied in the previous Office Action of October 19, 2005.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Mills et al., Lo et al. and Dunseath. Mills et al., Lo et al. and Dunseath all teach of cardiac monitoring system that comprises an electrode for detecting biopotentials existing on the surface of a living body, and thus teach of analogous arts. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the system as taught by Mills et al. to use electrodes made of silicone rubber as taught by Dunseath, since it is well known in the art to provide efficient and effective detection of biopotentials. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Mills et al., Lo et al. and Dunseath to have the limitations of claim 16.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lester et al. (U.S. Patent No. 4,129,125), Sekine (U.S. Patent No. 4,844,090), Righter (U.S. Patent No. 5,191,891), Mills et al. (U.S. Patent No.

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5,289,824), Mills et al. (U.S. Patent No. 5,613,495), Amano et al. (U.S. Patent No. 6,241,684), Scalisi et al. (U.S. Patent No. 6,363,274), Chen (U.S. 2005/0148889).

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lenwood Faulcon, Jr. whose telephone number is 571-272-6090. The examiner can normally be reached on Monday-Thursday from 9 to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D. Sykes, can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

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Lenwood Faulcon, Jr.

Geørge Manuel

Primary Examiner